

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 23, 2002, 06:19:54 ; Search time 983.832 Seconds
(without alignments)
1169.874 Million cell updates/sec

Title: US-09-938-013a-2
Perfect score: 55
Sequence: 1 gaatgtgcatagacag.....ctaaagaacgatcagacag 55

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues
Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*

- 1: gb.ba.*
- 2: gb.htg.*
- 3: gb.in.*
- 4: gb.om.*
- 5: gb.ov.*
- 6: gb.pat.*
- 7: gb.ph.*
- 8: gb.pl.*
- 9: gb.pr.*
- 10: gb.ro.*
- 11: gb.sts.*
- 12: gb.sy.*
- 13: gb.un.*
- 14: gb.vi.*
- 15: em.ba.*
- 16: em.fun.*
- 17: em.hum.*
- 18: em.in.*
- 19: em.mu.*
- 20: em.om.*
- 21: em.or.*
- 22: em.ov.*
- 23: em.pat.*
- 24: em.ph.*
- 25: em.pl.*
- 26: em.ro.*
- 27: em.sts.*
- 28: em.un.*
- 29: em.vi.*
- 30: em.htg.hum.*
- 31: em.htg.inv.*
- 32: em.htg.other.*
- 33: em.htgo.inv.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query
No. Score Match Length DB ID Description

1	55	100.0	1266	9	HSSMNEUR8
2	55	100.0	1408	6	A77034
3	55	100.0	1408	6	A77036
4	55	100.0	1408	6	AR100219
5	55	100.0	1408	6	AR100221
6	55	100.0	1442	9	BC000908
7	55	100.0	1466	9	HSU21914
8	55	100.0	1491	9	HSU18423
9	55	100.0	1525	9	BC015308
10	55	100.0	1582	6	A77033
11	55	100.0	1582	6	A77035
12	55	100.0	1582	6	AR100218
13	55	100.0	1582	6	AR100220
14	55	100.0	3271	6	AR100228
15	55	100.0	82976	9	AC005031
16	55	100.0	113213	9	AC016534
17	55	100.0	129541	9	AC004999
18	55	100.0	131078	9	HSU80017
19	55	100.0	155306	2	AC010272
20	55	100.0	155974	9	AC022119
21	55	100.0	168814	9	AC010237
22	55	100.0	190871	9	AC044797
23	46	83.6	885	6	AR022360
24	32	58.2	1643	9	HSU91640
25	32	58.2	42210	9	AC002050
26	32	58.2	155780	9	HS336012
27	32	58.2	175695	2	AL606844
28	32	58.2	178631	9	AL512635
29	30	54.5	206074	9	AC009484
30	28	50.9	113735	2	AC091881
31	28	50.9	138841	2	AC092354
32	28	50.9	156486	2	AC011657
33	28	50.9	163384	9	AC009180
34	27.4	49.8	134157	9	HS101D08
35	27.4	49.8	340000	9	HS21C103
36	27.2	49.5	164988	2	AC080070
37	27.2	49.5	177720	9	AC019193
38	27	49.1	149546	9	AC087256
39	27	49.1	152167	2	AC073307
40	27	49.1	168227	9	AC021868
41	27	49.1	173239	9	AC006478
42	27	49.1	196817	9	AC019209
43	26.8	48.7	259487	10	AL365322
44	26.2	47.6	111949	2	AL353755
45	26.2	47.6	212854	2	AC093028

ALIGNMENTS

RESULT 1	HSSMNEUR8	1266 bp	DNA	linear	PRI 16-MAY-1996
LOCUS	Human survival motor neuron (SMN) gene, exons 7 and 8, and complete cds.				
DEFINITION	U43883				
ACCESSION	U43883.1	GI:1314344			
VERSION	spinal muscular atrophy gene.				
KEYWORDS	8 of 8				
SEGMENT	human.				
SOURCE	Homo sapiens				
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (bases 1 to 1266)				
AUTHORS	Lefebvre,S., Burglen,L., Reboullet,S., Clermont,O., Burlet,P., Viollet,L., Benichou,B., Cruaud,C., Millasseau,P., Zeviani,M. et al.				
TITLE	Identification and characterization of a spinal muscular atrophy-determining gene				
JOURNAL	Cell 80 (1), 155-165 (1995)				
MEDLINE	95112343				
REFERENCE	2 (bases 1 to 1266)				
AUTHORS	Burglen,L., Lefebvre,S., Clermont,O., Burlet,P., Viollet,L.,				

Cruaud,C., Munnich,A. and Melki,J.
Structure and organization of the human survival motor neurone
(SMN) gene
Genomics 32 (3), 479-482 (1996)
MEDLINE
96435930
REFERENCE
3 (bases 1 to 1266)
AUTHORS
Burglen,L.
Direct Submission
Submitted (26-DEC-1995) Lydie Burglen, INSERM U-393, IFREM, Hopital
Necker-Enfants Malades, 149, rue de Sevres Cedex 15, Paris 75743,
France
Duplicated gene within the 5q13 region; interspecies conserved
sequences. The SMN gene is present in two copies within the SMA
(spinal muscular atrophy) candidate region on chromosome 5q13. The
two copies are transcribed and are distinguished by sequence
differences specific to the centromeric copy.
FEATURES
Location/Qualifiers
1..1266
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="5"
/map="5q13"
Join(U43876.1:575..688,U43877.1:104..175,
U43878.1:118..237,U43879.1:84..284,U43880.1:69..221,
U43881.1:103..198,U43882.1:53..163,209..262,707..>1266)
/gene="SMN"
/note="spinal muscular atrophy gene; cDNA sequence found
in GenBank Accession Number U18423"
product="survival motor neuron"
Join(U43876.1:575..762,U43877.1:1..257,U43878.1:1..314,
U43879.1:1..357,U43880.1:1..302,U43881.1:1..251,
U43882.1:1..244,1..1266)
/gene="SMN"
Join(U43876.1:608..688,U43877.1:104..175,
U43878.1:118..237,U43879.1:84..284,U43880.1:69..221,
U43881.1:103..198,U43882.1:53..163,209..259)
/gene="SMN"
/codon_start=1
/note="spinal muscular atrophy gene"
product="survival motor neuron"
protein_id="AAC50473.1"
/db_xref="GI:1314346"
/translation="MAMSSGGSGGGVPEQDSVLFRTGTQSDSDIWDITLIKAYD
KAVAFHAKNGDICTSGKPTPKPKAKNKSKQNTAASLQQRKVGDKGSAIW
SDGCIYPTATSIDFKRTCVVYTGNGREONLSLSPICEVANNIGNAENE
NSOYSDSENSRSPCKNDNIKPSAPNSFLPPPPMPGPRGLGPKGPKENGPP
PPPPPPHLLSCHLWPPFSGPPIPPPPPICPDSLDADALGSMLSWYMSGYHTGY
YMGFRQKGRGCHSLN"
<1..208
/gene="SMN"
/number=6
misc_difference 164
/note="a nucleotide change specific to the centromeric
copy"
/citation=[1]
/replace="a"
209..262
/gene="SMN"
/number=7
misc_difference 214
/gene="SMN"
/note="a nucleotide change specific to the centromeric
copy"
/citation=[1]
/replace="t"
Join(260..>262,707..>1266)
/gene="SMN"
263..706
/gene="SMN"
/number=7
misc_difference 362
/gene="SMN"

Query Match 100.0%; Score 55; DB 9; Length 1266;
Best Local Similarity 100.0%; Pred. No. 7.1e-09;
Matches 55; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAAATGCTGGCATAGACAGCAGCACTAAATGACACCACTAAAGAAACGATCAGACAG 55
|||||
Db 707 GAAATGCTGGCATAGACAGCAGCACTAAATGACACCACTAAAGAAACGATCAGACAG 761
|||||
RESULT 2
A77034 1408 bp DNA linear PAT 19-OCT-1999
LOCUS Sequence 11 from Patent EP0708178.
DEFINITION A77034
ACCESSION A77034
VERSION A77034.1 GI:6088824
KEYWORDS
unidentified.
SOURCE
unidentified.
ORGANISM
unclassified.
REFERENCE
1 (bases 1 to 1408)
AUTHORS Melki,J. and Munnich,A.
TITLE SURVIVAL MOTOR NEURON (SMN) GENE: A GENE FOR SPINAL MUSCULAR
ATROPHY
JOURNAL Patent: EP 0708178-A 11 24-APR-1996;
INST NAT SANTE RECH MED (FR)
FEATURES
Location/Qualifiers
1..1408
/organism="unidentified"
/db_xref="taxon:32644"
BASE COUNT 464 a 198 c 277 g 469 t
ORIGIN
Query Match 100.0%; Score 55; DB 6; Length 1408;
Best Local Similarity 100.0%; Pred. No. 7e-09;
Matches 55; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAAATGCTGGCATAGACAGCAGCACTAAATGACACCACTAAAGAAACGATCAGACAG 55
|||||
Db 846 GAAATGCTGGCATAGACAGCAGCACTAAATGACACCACTAAAGAAACGATCAGACAG 900
|||||
RESULT 3
A77036 1408 bp DNA linear PAT 19-OCT-1999
LOCUS Sequence 13 from Patent EP0708178.
DEFINITION A77036
ACCESSION A77036
VERSION A77036.1 GI:6088826
KEYWORDS
unidentified.
SOURCE
unidentified.
ORGANISM
unclassified.
REFERENCE
1 (bases 1 to 1408)
AUTHORS Melki,J. and Munnich,A.
TITLE SURVIVAL MOTOR NEURON (SMN) GENE: A GENE FOR SPINAL MUSCULAR
ATROPHY